comprising culturing the host cell of claim 5 under conditions in which the nucleic acid molecule is expressed.

REMARKS

Claims 1-22 were pending in the application. Claims 1, 2 and 12 have been amended. Specifically, claim 1(e) has been amended to delete the draft notation "CHECK NUMBER" which was inadvertently presented in the claim as filed. Claim 1(g) has been amended to correct a minor typographical error. Claims 2(b) and 12(b) have been amended to delete the term "Number" which was inadvertently recited in duplicate in the claims as filed. Accordingly, following entry of the Amendments presented herein, claims 1-22 will remain pending in the instant application.

No new matter has been added. For the Examiner's convenience, a copy of the claims as they will be pending upon entry of the present amendment is attached hereto as Appendix A.

Also attached hereto is a marked-up version of the changes made to the claims by the current amendments. The attached page is captioned "Version With Markings to Show Changes Made".

CONCLUSION

If a telephone conversation with Applicant's Attorney would expedite prosecution of the above-identified application, the Examiner is urged to call the undersigned at (617) 227-7400.

Respectfully submitted,

Maria C. Laccotripe, Ph.D., J.D.

Limited Recognition Under 37 CFR § 10.9(b)

Attorney for Applicant

LAHIVE & COCKFIELD, LLP 28 State Street Boston, MA 02109 Tel. (617) 227-7400

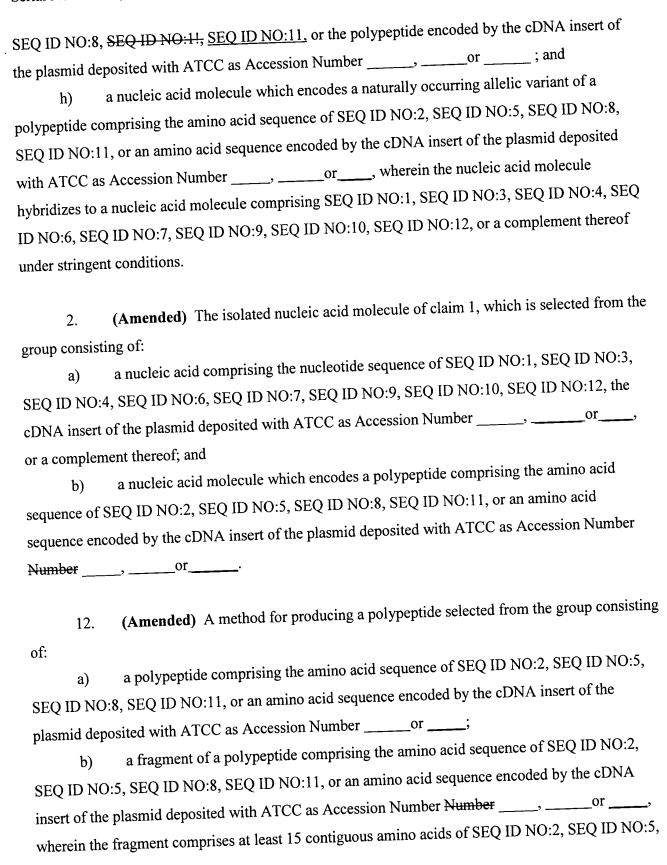
Dated: September 13, 2001

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Claim 1 was amended as follows:

Claim	n I was amended as follows.		
1.	(Amended) An isolated nucleic acid molecule se	elected from the	group consisting of:
a)	a nucleic acid molecule comprising a nucleotide sequence which is at least about 60%		
identical to th	the nucleotide sequence of SEQ ID NO:1, SEQ ID N	10:3, SEQ ID N	10:4, SEQ ID NO:6,
SEO ID NO:	:7, SEQ ID NO:9, SEQ ID NO: 10, SEQ ID NO:12,	or the cDNA in	nsert of the plasmid
deposited wit	ith ATCC as Accession Number,	or	a
complement	t thereof;		
b)	a nucleic acid molecule comprising a fragment of	f at least 439 nu	icleotides of the
nucleotide se	sequence of SEQ ID NO:1, SEQ ID NO:3, the cDNA	A insert of the p	lasmid deposited with
ATCC as Ac	ccession Number, or a complement thereof;		
c)	a nucleic acid molecule comprising a fragment o	f at least 481 m	acleotides of the
nucleotide sequence of SEQ ID NO:4, SEQ ID NO:6, the cDNA insert of the plasmid deposited with			
ATCC as Ac	accession Number, or a complement thereof;		
д)	a nucleic acid molecule comprising a fragment of	of at least 2175	nucleotides of the
nucleotide s	nucleotide sequence of SEQ ID NO:7, SEQ ID NO:9, the cDNA insert of the plasmid deposited with		
ATCC as A	Accession Number, or a complement thereof;		
e)	a nucleic acid molecule comprising a fragment of	of at least 439 (CHECK NUMBER)
nucleotides	s of the nucleotide sequence of SEQ ID NO:10, SEQ) ID NO:12, the	cDNA insert of the
plasmid der	posited with ATCC as Accession Number, or a	a complement th	nereof;
f)	a nucleic acid molecule which encodes a polype	eptide comprisi	ng an amino acid
seguence O	of at least about 60% homologous to the amino acid	sequence of SE	Q ID NO:2, SEQ ID
NO:5, SEQ	Q ID NO:8, SEQ ID NO:11, or an amino acid sequen	nce encoded by	the cDNA insert of the
plasmid de	enosited with ATCC as Accession Number,	or;	
g)	a nucleic acid molecule which encodes a fragm	ent of a polype	ptide comprising the
amino acid	d sequence of SEO ID NO:2 or SEQ ID NO:5 or SE	Q ID NO:8, or	SEQ ID NO:11,
wherein the fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2, SEQ ID NO:5,			
	-		



Group Art Unit: N/A

SEQ ID NO:8, SEQ ID NO:11, or an amino acid sequence encoded by the cDNA insert of the plasmid deposited with ATCC as Accession Number ______ or _____; and ______ or _____; and ______ or ______; and sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or an amino acid sequence encoded by the cDNA insert of the plasmid deposited with ATCC as Accession Number ______, ____ or _____, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO: 12, or a complement thereof under stringent conditions; comprising culturing the host cell of claim 5 under conditions in which the nucleic acid molecule is expressed.

Group Art Unit: N/A

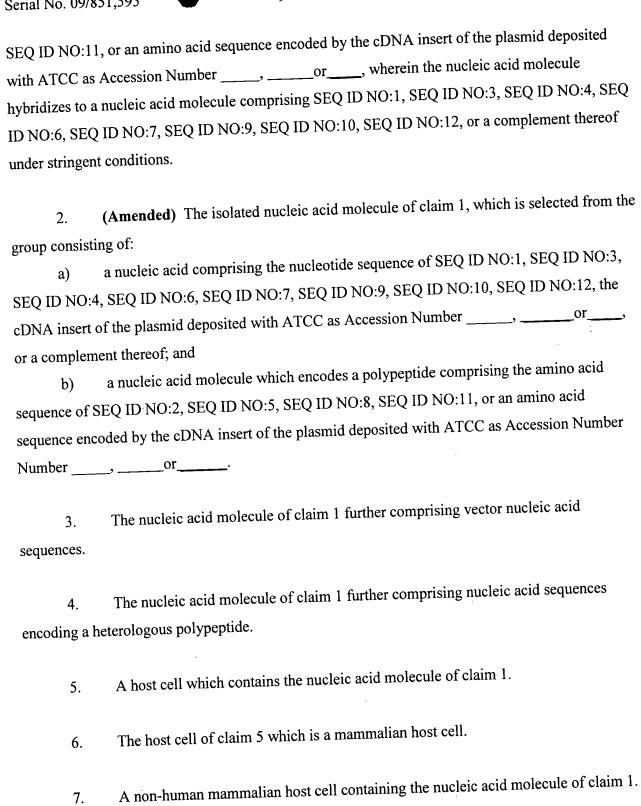
APPENDIX A

(Amended) An isolated nucleic acid molecule selected from the group consisting of: 1. a nucleic acid molecule comprising a nucleotide sequence which is at least about 60% a) identical to the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO: 10, SEQ ID NO:12, or the cDNA insert of the plasmid deposited with ATCC as Accession Number _____, ___ or ____ a complement thereof; a nucleic acid molecule comprising a fragment of at least 439 nucleotides of the b) nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, the cDNA insert of the plasmid deposited with ATCC as Accession Number _____, or a complement thereof; a nucleic acid molecule comprising a fragment of at least 481 nucleotides of the c) nucleotide sequence of SEQ ID NO:4, SEQ ID NO:6, the cDNA insert of the plasmid deposited with ATCC as Accession Number ____, or a complement thereof; a nucleic acid molecule comprising a fragment of at least 2175 nucleotides of the d) nucleotide sequence of SEQ ID NO:7, SEQ ID NO:9, the cDNA insert of the plasmid deposited with ATCC as Accession Number ____, or a complement thereof; a nucleic acid molecule comprising a fragment of at least 439 nucleotides of the nucleotide sequence of SEQ ID NO:10, SEQ ID NO:12, the cDNA insert of the plasmid deposited with ATCC as Accession Number _____, or a complement thereof; a nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence of at least about 60% homologous to the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or an amino acid sequence encoded by the cDNA insert of the plasmid deposited with ATCC as Accession Number____, ___or ____; a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:2 or SEQ ID NO:5 or SEQ ID NO:8, or SEQ ID NO:11, wherein the fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or the polypeptide encoded by the cDNA insert of the plasmid deposited with ATCC as Accession Number _____, ____or ____; and a nucleic acid molecule which encodes a naturally occurring allelic variant of a h) polypeptide comprising the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8,

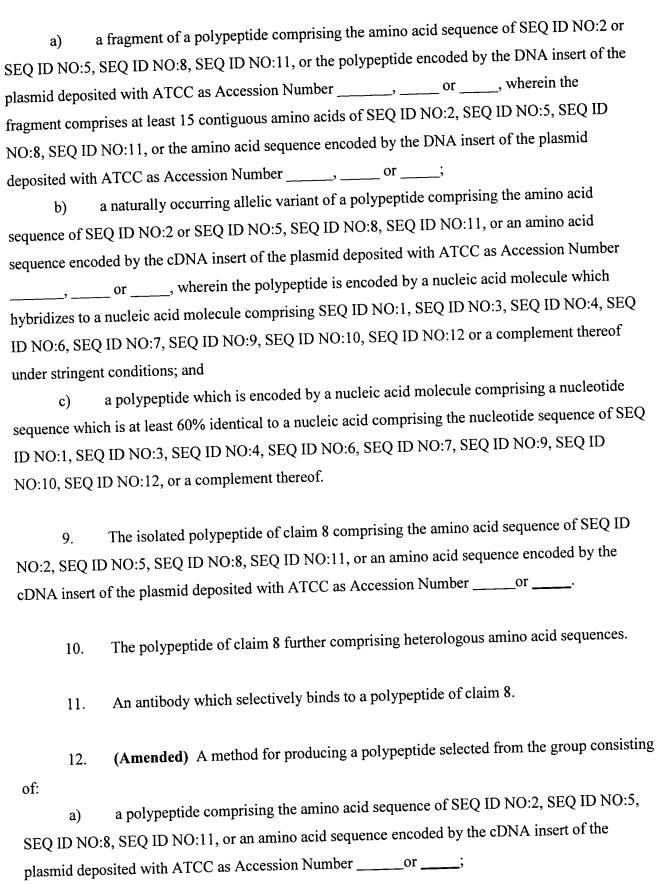
7.

8.

Group Art Unit: N/A



An isolated polypeptide selected from the group consisting of:



14.

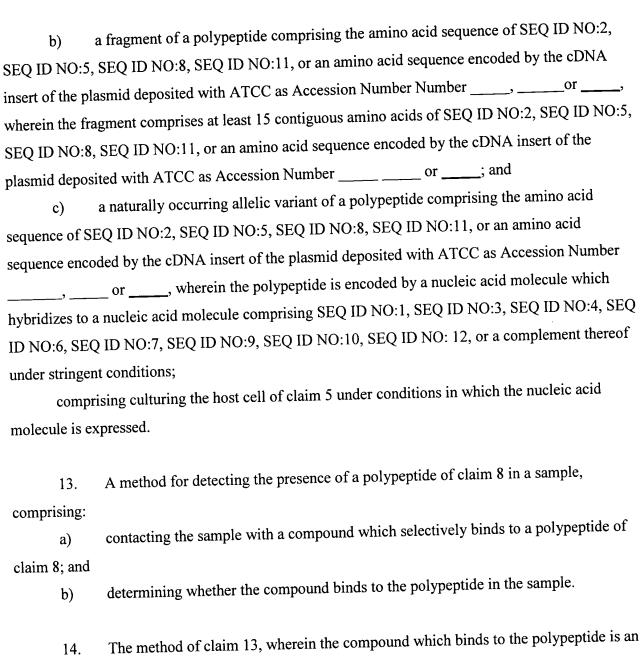
15.

instructions for use.

16.

comprising the steps of:

antibody.



A kit comprising a compound which selectively binds to a polypeptide of claim 8 and

A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample,

-12-

- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
- b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample.
- 17. The method of claim 16, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.
- 18. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1 and instructions for use.
- 19. A method for identifying a compound which binds to a polypeptide of claim 8 comprising:
- a) contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a test compound; and
 - b) determining whether the polypeptide binds to the test compound.
- 20. The method of claim 19, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:
 - a) detection of binding by direct detecting of test compound/polypeptide binding;
 - b) detection of binding using a competition binding assay;
 - c) detection of binding using an assay for LGR6-activity.
- 21. A method for modulating the activity of a polypeptide of claim 8 comprising contacting a polypeptide or a cell expressing a polypeptide of claim 8 with a compound which binds to the polypeptide in a sufficient concentration to modulate the activity of the polypeptide.
- 22. A method for identifying a compound which modulates the activity of a polypeptide of claim 8, comprising:
 - a) contacting a polypeptide of claim 8 with a test compound; and

b) determining the effect of the test compound on the activity of the polypeptide to thereby identify a compound which modulates the activity of the polypeptide.